

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 016894-03140	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, Item 5 below.	
International application No. PCT/IB2005/000477	International filing date (day/month/year) 25/02/2005	(Earliest) Priority Date (day/month/year) 27/02/2004
Applicant ENERGENIUS, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

THIN FILM FERROELECTRIC COMPOSITES, METHOD OF MAKING AND CAPACITOR COMPRISING THE SAME

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

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International application No.

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Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

Thin film ferroelectric capacitor composites exhibiting reduced leakage current and enhanced breakdown strength are prepared using sol-gel processing. The composite contains a buffer layer and at least one dielectric layer and is formed by depositing by sol-gel processing onto a substrate a composition containing a polymeric heterocyclic amide, such as polyvinylpyrrolidone.

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International Application No

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01G4/12 H01G4/33 H01L21/8246 H01L27/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01G H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZHANG W ET AL: "Self-buffered BaxSr1-xTiO3 films by sol-gel and RF magnetron sputtering method" MATERIALS RESEARCH BULLETIN, PERGAMON PRESS, NEW YORK, US, vol. 38, no. 1, 1 January 2003 (2003-01-01), pages 133-139, XP004399551 ISSN: 0025-5408	1,3-5, 8-11,15, 16,18,20
Y	the whole document	2,6,7, 12-14, 17,19
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

15 June 2005

Date of mailing of the international search report

27/06/2005

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INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KOZUKA, H. AND HIGUCHI, A.: "Single-layer submicron-thick BaTiO ₃ coatings from poly(vinylpyrrolidone)-containing sols...." J. MATER. RES., vol. 16, no. 11, November 2001 (2001-11), pages 3116-3123, XP001206786 cited in the application	2,19
A	the whole document	1-20
Y	US 2002/177008 A1 (SHIRAKAWA YUKIHIKO ET AL) 28 November 2002 (2002-11-28) paragraph '0134!	2,7,17, 19
Y	US 2003/090199 A1 (SAITA YOSHIO ET AL) 15 May 2003 (2003-05-15) paragraph '0045! - paragraph '0091!	6,7,14, 17
Y	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 13, 30 November 1998 (1998-11-30) -& JP 10 223840 A (HITACHI LTD; HITACHI VLSI ENG CORP), 21 August 1998 (1998-08-21) the whole document	12
Y	EP 0 618 598 A (TEXAS INSTRUMENTS INCORPORATED) 5 October 1994 (1994-10-05) claim 8	13
A	PATENT ABSTRACTS OF JAPAN vol. 016, no. 530 (E-1287), 30 October 1992 (1992-10-30) & JP 04 199746 A (MATSUSHITA ELECTRIC IND CO LTD), 20 July 1992 (1992-07-20) the whole document	1-20
A	US 2003/143800 A1 (HALL LINDSEY H ET AL) 31 July 2003 (2003-07-31) paragraph '0072! - paragraph '0083!	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2005/000477

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			DE 69404354 T2 22-01-1998
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